

# Monitoring the activities of sports reserve training institutions on the example of the municipal formation “Yekaterinburg city”

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## Abstract

**Objective of the study** was to study the process of monitoring municipal institutions for training the sports reserve of the municipal formation “Ekaterinburg City”.

**Methods and structure of the study.** The work uses methods of criterion and comparative analysis. The activities of 29 municipal institutions for training sports reserves in 56 sports were analyzed.

**Results and conclusions.** Criteria and tools for monitoring the activities of sports reserve training institutions have been defined. The results of the study can be used by governing bodies in the field of physical culture and sports, and by the management of sports reserve training institutions.

**Keywords:** *preparation of sports reserve, monitoring, institutions for training sports reserve, governing bodies in the field of physical culture and sports.*

**Introduction.** In the Russian Federation, the Concept for the development of children’s and youth sports in the Russian Federation until 2030 has been approved and is being implemented [2]. One of the main directions and activities for the implementation of the Concept regarding the preparation of sports reserves is the modernization of the system for training sports reserves and the development of unified approaches to its scientific and methodological support, taking into account the development trends of world sports, new opportunities of science and digital technologies. N.Yu. Maslennikova points out that effective management of a complex and dynamic system, forecasting its changes is possible only on the basis of collecting and analyzing a continuous flow of information about its condition, as well as the patterns of the entire set of processes occurring in it. For effective and high-quality management of any processes, constant real-time monitoring and monitoring of the system state is necessary. Today, the most important tool for observation, analysis and forecasting, as well as a factor in

making informed and most effective decisions, is the monitoring system [1].

Objective of the study was to identify the structure and content of the process of monitoring municipal institutions for training the sports reserve of the municipal formation “Ekaterinburg City”, as well as to justify the results obtained.

**Methods and structure of the study.** Preparing a sports reserve is a management process, as it includes defining goals and objectives, planning, organizing, controlling and managing resources (people, time, finances, information, etc.) to achieve these goals and objectives. To assess the activities of municipal institutions for the preparation of sports reserves and make management decisions, we have developed a special monitoring system for municipal institutions for the preparation of sports reserves in Yekaterinburg. The system is based on an analysis of the activities of institutions within the framework of fulfilling federal standards of sports training and performance within the framework of the indicators of the federal statis-



tical observation form No. 5-FC "Information on the preparation of a sports reserve."

As part of the monitoring, criterial and comparative analysis methods are used.

To conduct a criterion analysis, the following criteria were selected: volume of training load in accordance with federal standards of sports training by sport; volume of competitive load in accordance with federal standards of sports training by type of sport; the number of sports categories and titles of sports reserve training institutions; the number of prizes in competitions for sports reserve training institutions; number of members of the national teams of the Sverdlovsk region and the Russian Federation; Expenses of the institution for training the sports reserve.

In order to collect information for filling out by institutions, a table has been developed that includes the following sections: "Royal composition", "Assignment of ranks", "Participation in competitions", "Competitive load", "Training load", "Financing of competitions", "Financing of equipment".

To visually present monitoring results, highlight trends, dependencies and patterns, and compare data with each other, tools for creating graphical representations of data are used: Microsoft Power BI for analyzing annual results, used by the Department of

Physical Culture and Sports of the Yekaterinburg City Administration since 2020 and Google Looker studio for operational analysis of the current activities of sports reserve training institutions, used by municipal sports reserve training institutions since 2023.

Monitoring has been used by the Department of Physical Culture and Sports of the Yekaterinburg City Administration since 2020. The activities of 29 municipal sports schools and Olympic reserve sports schools in 56 sports are analyzed. Based on monitoring data and statistical reports in form No. 5-FC "Information on the preparation of sports reserves," an interactive report (dashboard) of the Department was generated containing data from 2015 to 2022. A summary report for all institutions in the period from 2017 to 2022 is presented for analysis gg., 3 years before the introduction of monitoring and 3 years after the introduction.

Results of the study and discussion. There are 28,127 athletes training in 29 municipal institutions (Fig. 1). The number of students increased until 2020 (by a total of 309 people). According to the distribution of those involved in the stages of sports training, there is a decrease in the share of those involved in the educational and training stage and an increase in the share at the sports and recreational stage.

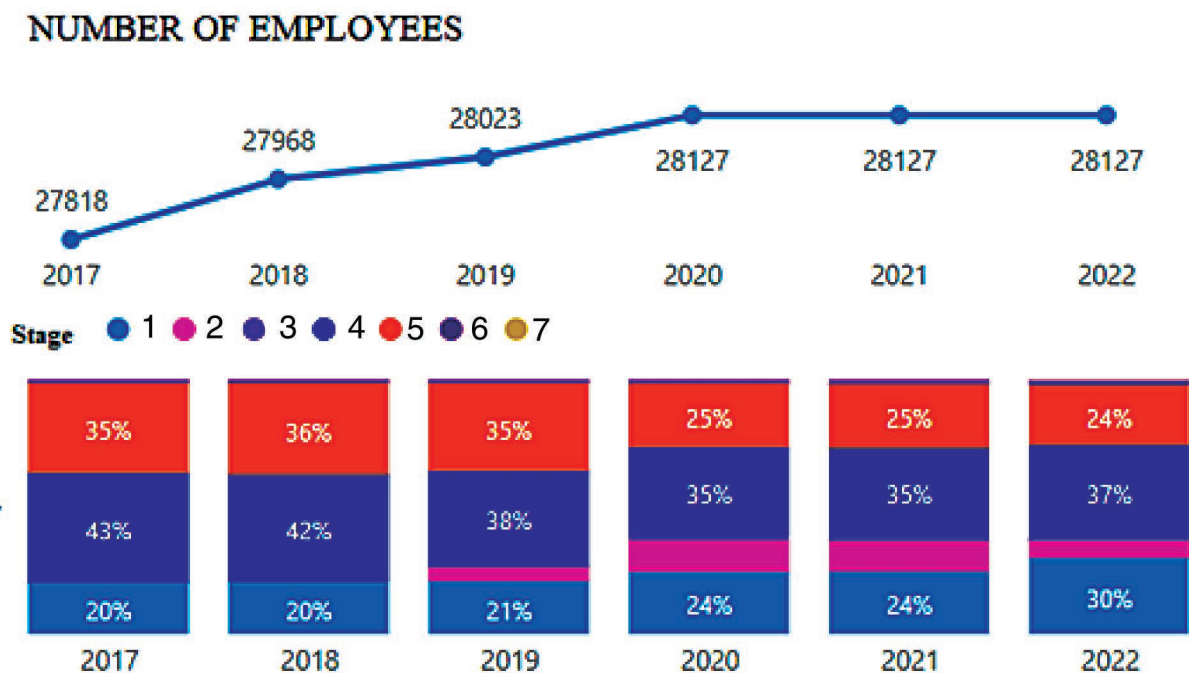
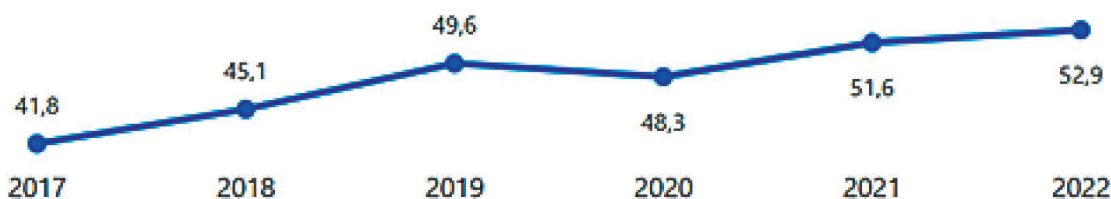


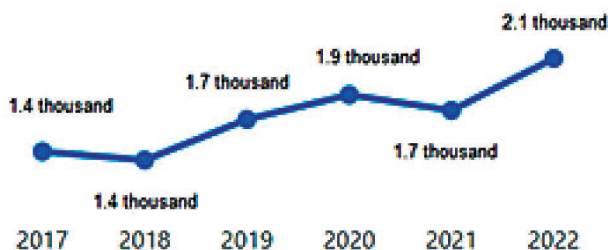
Figure 1. Structure of municipal institutions involved in training the sports reserve of the city of Yekaterinburg – 1. Sports and recreational stage; 2. Stage of basic level of training complexity; 3. Stage of advanced level of training; 4. Initial training stage; 5 Training stage (sports specialization stage); 6. Stage of improving sportsmanship; 7. Stage of highest sportsmanship.

### ACHIEVEMENTS

Proportion of athletes with a sports category or sports title



Number of members of Sverdlovsk region teams



Number of members of Russian national teams

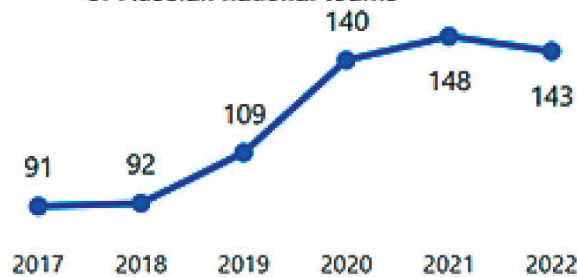


Figure 2. Dynamics of the number of athletes with a sports category or sports title who are members of the national teams of the Sverdlovsk region and the Russian Federation

The indicator “The share of athletes with a sports category or sports title” showed negative dynamics only in 2020. In other periods, a positive trend can be observed (Fig. 2). The number of members of the Sverdlovsk region national team has its highest figure in 2022, 33% more than in 2017. For members of the Russian Federation team, the highest figure was reached in 2021, 38% more than in 2017.

In terms of the number of prize places at national and international competitions, the lowest figure was found in 2020 (Fig. 3), which, in our opinion, is due to the restrictions on the movement of people and public events in force at that time due to the COVID-19 pandemic. In other periods, we observe systematic growth, the highest indicators were achieved in 2022. Thus, the previously noted decrease in the proportion of athletes involved in the training stage did not lead to a general decrease in the effectiveness of sports reserve training institutions, perhaps this is due to sys-

tematic efforts to harmonize the distribution involved in the stages of sports training.

In terms of financing, expenses for sports training have been increasing annually since 2019 and amount to more than 100 million rubles at the end of 2022. The municipal budget has the largest share of expenditures since 2020, and the largest share is also made up of expenditures from extra-budgetary sources. It is possible to increase the share of expenses from extra-budgetary sources by increasing the income of sports reserve training institutions. In our opinion, the increase in expenses for training the sports reserve is one of the factors in increasing the performance of athletes.

Based on performance indicators (the proportion of athletes with a sports rank or sports title, the number of members of the national team of the Sverdlovsk region and the Russian Federation, the number of prize places in all-Russian and international competi-

### Number of prizes in competitions

● All-Russian competitions ● International competitions

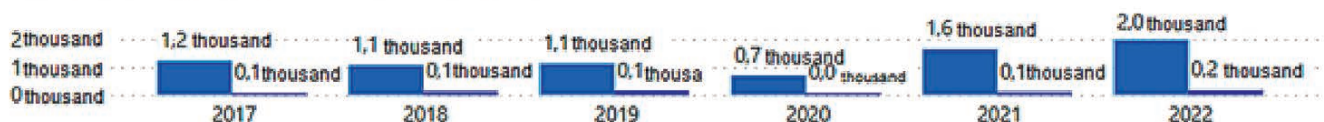


Figure 3. Number of prizes at national and international competitions



Establishment	Dynamics of the engaged	Dynamics of the number of athletes with a sports category or title	Dynamics of members of the Sverdlovsk region team	Dynamics of members of the Russian national team	Dynamics of the number of prizes at all-Russian competitions	Dynamics of the number of prizes at international competitions
Sports school "Victoria"	83	119	69	7	59	-1
Sports school "Children's Stadium"	-5	71	13	-6	-58	13
Equestrian Sports School	0	64	3	0	3	0
Sports school "Dynamo"	0	62	42	-11	14	-6
Sports school "Yunist"	0	48	73	-4	56	38
Sports school for technical sports	0	38	7	0	4	3
Sports school "Uralochka" for volleyball	0	34	-14	-1	10	-1
Sports school "Fakel"	0	28	0	0	6	0
Sports school of mountain sports	0	26	8	-1	-1	-6
Sports school "Ural" for football	0	25	0	0	0	0
Sports school "Restock"	0	20	5	1	-10	0
Olympic Reserve Sports School No. 1	0	18	1	2	-44	-9
Sports school "Intellekt"	0	12	14	0	7	1

Figure 4. Heat map of the dynamics of indicators of sports reserve training institutions

Rating of sports schools based on 2022 indicators	Rating of sports schools based on performance dynamics in 2022 and 2021
Sports school "Yunist" 20 Final rating 2022	Sports school "Victoria" 26 Final rating
Sports school No. 19 "Children's stadium" 30 Final rating 2022	Sports school "Yunist" 37 Final rating
Sports school of mountain sports 30 Final rating 2022	Taekwondo sports school 39 Final rating
Olympic Reserve Sports School No. 1 31 Final rating 2022	Sports school "Intellekt" 50 Final rating
Sports school "Dynamo" 32 Final rating 2022	Sports school for technical sports 52 Final rating
Sports school No. 16 33 Final rating 2022	Sports school No. 18 for bandy 53 Final rating
Sports school "Victoria" 43 Final rating 2022	Sports school "Lokomotiv-Izumrud" 57 Final rating
Sports school No. 18 for bandy 51 Final rating 2022	Sports school No. 16 58 Final rating

Figure 5. Ratings of the activities of sports reserve training institutions

tions), using visualization tools, a heat map was developed to evaluate the activities of sports reserve training institutions, in which green positive dynamics of the indicator in comparison between 2022 and 2021 are indicated, yellow – no dynamics, red – negative dynamics (Fig. 4). Based on the results of the performance assessment, various ratings of the institutions' performance were formed: based on the results of the calendar year, based on the results of the dynamics of the indicators of the current year compared to the previous one (Fig. 5).

**Conclusions.** As a result of the implementation of monitoring, the collection of information has been unified. All information is filled out in only one source for each institution, which reduces the number of errors and inconsistencies, thus increasing the correctness of the information provided.

Due to the regularity of monitoring, control over the activities of sports reserve training institutions has been increased. The effectiveness of sports reserve training institutions has been increased in terms of assigning categories, performing at competitions, and joining national teams of the Sverdlovsk region and the Russian Federation.

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